

M#  
Dkt. No.

35540

08/79408  
HCM/MJL/GB/C1072

Applicant: CHOO, Yen et al

Appln. No.: (unknown) 08/743,408

Filing Date: February 20, 1997

Examiner: (unknown) W. S. PALS Group Art Unit: (unknown)

INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT

Date: February 20, 1997

Page 1 of 3

## U.S. PATENT DOCUMENTS

| Examiner's Initials* | Document Number | Date MM/YYYY | Name<br>(Family Name of First Inventor) | Class | SubClass | Filing Date<br>(if |
|----------------------|-----------------|--------------|---|-------|----------|--------------------|
| AR                   |                 |              |   |       |          |                    |
| BR                   |                 |              |   |       |          |                    |
| CR                   |                 |              |   |       |          |                    |
| DR                   |                 |              |   |       |          |                    |
| ER                   |                 |              |   |       |          |                    |
| FR                   |                 |              |   |       |          |                    |
| GR                   |                 |              |   |       |          |                    |
| HR                   |                 |              |   |       |          |                    |
| IR                   |                 |              |   |       |          |                    |
| JR                   |                 |              |   |       |          |                    |
| KR                   |                 |              |   |       |          |                    |
| LR                   |                 |              |   |       |          |                    |
| MR                   |                 |              |   |       |          |                    |
| NR                   |                 |              |   |       |          |                    |

## FOREIGN PATENT DOCUMENTS

|    | Document Number | Date MM/YYYY | Country | Inventor Name | Class | SubClass | Translation Readily Available |    |
|----|-----------------|--------------|---------|---------------|-------|----------|-------------------------------|----|
|    |                 |              |         |               |       |          | English Abstract              | No |
| OR |                 |              |         |               |       |          |                               |    |
| PR |                 |              |         |               |       |          |                               |    |
| QR |                 |              |         |               |       |          |                               |    |
| RR |                 |              |         |               |       |          |                               |    |
| SR |                 |              |         |               |       |          |                               |    |
| TR |                 |              |         |               |       |          |                               |    |
| UR |                 |              |         |               |       |          |                               |    |
| VR |                 |              |         |               |       |          |                               |    |
| WR |                 |              |         |               |       |          |                               |    |
| XR |                 |              |         |               |       |          |                               |    |

## OTHER (including in this order: Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

|     |  |
|-----|--|
| YR  | REBAR et al: "Zinc Finger Phage: Affinity Selection of Fingers with New DNA-Binding Specificities". SCIENCE, vol 263, Feb 4, 1994, pages 671-673                             |
| ZR  | JAMIESON et al: "In Vitro Selection of Zinc with Altered DNA-Binding Specificity", BIOCHEMISTRY, 1994, 33, pgs 5689-5695   |
| AAR | THIESEN et al: "Determination of DNA binding specificities of mutated zinc finger domains", FEBS LETTERS, vol 283, no.1, May 1991, pages 23-26                               |
| ABR | JACOBS: "Determination of the base recognition positions of zinc fingers from sequence analysis", THE EMBO JOURNAL, vol 11, no. 12, 1992, pages 4507-4517                    |
| ACR | DESJARLAIS et al: "Toward rules relating zinc finger protein sequences and DNA binding site preferences" PROC NATL ACAD SCI USA, vol 89, Aug 1992, BIOPHYSICS, pp. 7345-7349 |
| ADR | NARDELLI et al: "Zinc finger-DNA recognition: analysis of base specificity by site-directed mutagenesis", NUCLEIC ACIDS RESEARCH, Vol. 20, NO. 16, pages 4137-4144           |

Examiner William Sandals

Date Considered: 11/10/97

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Atty.  
Dkt. No.

M#

Client Ref.

5540

HCM/MJL/GB/C1072

INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT

Date: February 20, 1997

Page **2** of **3**

Applicant: CHOO, Yen et al

Appln. No.: (unknown) 08/793 408

Filing Date: February 20, 1997

Examiner: (unknown)(W.S.A.W.A.U) Group Art Unit:(unknown)

1634

1005

## U.S. PATENT DOCUMENTS

| Examiner's Initials* | Document Number | Date MM/YYYY | Name (Family Name of First Inventor) | Class | SubClass | Filing Date If |
|----------------------|-----------------|--------------|--------------------------------------|-------|----------|----------------|
| AR                   |                 |              |                                      |       |          |                |
| BR                   |                 |              |                                      |       |          |                |
| CR                   |                 |              |                                      |       |          |                |
| DR                   |                 |              |                                      |       |          |                |
| ER                   |                 |              |                                      |       |          |                |
| FR                   |                 |              |                                      |       |          |                |
| GR                   |                 |              |                                      |       |          |                |
| HR                   |                 |              |                                      |       |          |                |
| IR                   |                 |              |                                      |       |          |                |
| JR                   |                 |              |                                      |       |          |                |
| KR                   |                 |              |                                      |       |          |                |
| LR                   |                 |              |                                      |       |          |                |
| MR                   |                 |              |                                      |       |          |                |
| NR                   |                 |              |                                      |       |          |                |

## FOREIGN PATENT DOCUMENTS

|    | Document Number | Date MM/YYYY | Country | Inventor Name | Class | SubClass | Translation Readily Available |             |
|----|-----------------|--------------|---------|---------------|-------|----------|-------------------------------|-------------|
|    |                 |              |         |               |       |          | English Abstract              | Enclosed No |
| OR |                 |              |         |               |       |          |                               |             |
| PR |                 |              |         |               |       |          |                               |             |
| QR |                 |              |         |               |       |          |                               |             |
| RR |                 |              |         |               |       |          |                               |             |
| SR |                 |              |         |               |       |          |                               |             |
| TR |                 |              |         |               |       |          |                               |             |
| UR |                 |              |         |               |       |          |                               |             |
| VR |                 |              |         |               |       |          |                               |             |
| WR |                 |              |         |               |       |          |                               |             |
| XR |                 |              |         |               |       |          |                               |             |

## OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

|     |   |
|-----|---|
| YR  | DESJARLAIS et al: "Use of a zinc-finger consensus sequence framework and specificity rules to design specific DNA binding proteins", PROC.NATLACAD.SCI.USA, Vol 90, March 1993, BIOCHEMISTRY, pages 2256-2260 |
| ZR  | CHOO et al: "Toward a code for the interactions of zinc fingers with DNA: Selection of randomized fingers displayed on phage", PROC.NATLACAD.SCI.USA, Vol 91, Nov 1994, BIOCHEMISTRY, pages 11163-11167       |
| AAR | CHOO et al: "Selection of DNA binding sites for zinc fingers using rationally randomized DNA reveals coded interactions", PROC.NATLACAD.SCI.USA, Vol 91, Nov 1994, BIOCHEMISTRY, pages 11168-11172            |
| ABR | CHOO et al: "In Vivo repression by a site-specific DNA-binding protein designed against an oncogenic sequence", NATURE, Vol 372, Dec. 15, 1994, pages 642-645   |
| ACR | WU et al: "Building zinc fingers by selection: Toward a therapeutic application", PROC.NATLACAD.SCI.USA, Vol 92, January 1995, BIOCHEMISTRY, pp 344-348   |
| ADR | KLUG et al: "Zinc Fingers", THE FASEB JOURNAL, May 1995, Vol 9, No. 8, pages 597-604  |

Examiner William Sandys

Date Considered: 1/10/97

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

|                                     |             |  |
|-------------------------------------|-------------|--|
| Atty.<br>Dkt. No.                   | M#<br>35540 | Client Ref.<br>HCM/MJL/GB/C1072                              |
| Applicant: CHOO, Yen et al          |             |  |
| Appn. No.: (unknown) 08/793 468     |             |  |
| Filing Date: February 20, 1997      |             |  |
| Date: February 20, 1997 Page 3 of 3 |             | Examiner: (unknown) W. SAWADA Group Art Unit: (unknown) 1636 |

INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT

Date: February 20, 1997

Page

3 of

3

## U.S. PATENT DOCUMENTS

| Examiner's Initials* | Document Number | Date MM/YYYY | Name<br>(Family Name of First Inventor) | Class | SubClass | Filing Date<br>(if applicable) |
|----------------------|-----------------|--------------|---|-------|----------|--------------------------------|
| AR                   |                 |              |   |       |          |                                |
| BR                   |                 |              |   |       |          |                                |
| CR                   |                 |              |   |       |          |                                |
| DR                   |                 |              |   |       |          |                                |
| ER                   |                 |              |   |       |          |                                |
| FR                   |                 |              |   |       |          |                                |
| GR                   |                 |              |   |       |          |                                |
| HR                   |                 |              |   |       |          |                                |
| IR                   |                 |              |   |       |          |                                |
| JR                   |                 |              |   |       |          |                                |
| KR                   |                 |              |   |       |          |                                |
| LR                   |                 |              |   |       |          |                                |
| MR                   |                 |              |   |       |          |                                |
| NR                   |                 |              |   |       |          |                                |

## FOREIGN PATENT DOCUMENTS

|    | Document Number | Date<br>MM/YYYY | Country | Inventor Name | Class | SubClass | English Abstract |    | Translation<br>Readily<br>Available |    |
|----|-----------------|-----------------|---------|---------------|-------|----------|------------------|----|-------------------------------------|----|
|    |                 |                 |         |               |       |          | Enclosed         | No | Enclose                             | No |
| OR |                 |                 |         |               |       |          |                  |    |                                     |    |
| PR |                 |                 |         |               |       |          |                  |    |                                     |    |
| QR |                 |                 |         |               |       |          |                  |    |                                     |    |
| RR |                 |                 |         |               |       |          |                  |    |                                     |    |
| SR |                 |                 |         |               |       |          |                  |    |                                     |    |
| TR |                 |                 |         |               |       |          |                  |    |                                     |    |
| UR |                 |                 |         |               |       |          |                  |    |                                     |    |
| VR |                 |                 |         |               |       |          |                  |    |                                     |    |
| WR |                 |                 |         |               |       |          |                  |    |                                     |    |
| XR |                 |                 |         |               |       |          |                  |    |                                     |    |

## OTHER (Including In this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

|     |  |
|-----|--|
| YR  | CHOO et al: "Designing DNA-binding proteins on the surface of filamentous phage", CURRENT OPINION IN BIOTECHNOLOGY, 1995, 6; pages 431-436 |
| ZR  |  |
| AAR |  |
| ABR |  |
| ACR |  |
| ADR |  |

Examiner William Sandals

Date Considered: 1/10/92

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.